

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method of dynamically checking a set of one or more resource controls associated with resource consumption of newly added software to an operating system, the method comprising:

encountering the newly added software and the associated set of one or more resource controls by an operating system entity in the operating system, wherein each of the set of resource controls identifies one or more resources, each of the set of resource controls having one or more limiting values associated therewith, each of the limiting values having one or more associated actions that are triggered if the limiting value is exceeded;

determining whether usage of one of the one or more resources by the operating system entity exceeds one of the limiting values in the one of the set of resource controls corresponding to the one of the resources;

triggering the one or more actions associated with the one of the limiting values when usage of the one of the one or more resources by the operating system entity exceeds the one of the limiting values; and

granting the one of the one or more resources to the operating system entity if the limiting value has not been exceeded.

2. (Previously Presented) A method as recited in claim 1 further comprising searching by the operating system entity a first set of resource controls to locate the one of the set of resource controls.

3. (Previously Presented) A method as recited in claim 2 further comprising searching by the operating system entity a second set of resource controls associated with a plurality of entities to locate the one of the set of resource controls.

4. (Previously Presented) A method as recited in claim 1 further comprising determining whether the resource associated with the resource control is active.

5. (Previously Presented) A method as recited in claim 1 further comprising loading the one of the set of resource controls from a global set of controls to a local set of controls associated with the operating system entity.

6. (Previously Presented) A method as recited in claim 1 further comprising notifying a plurality of other entities when there is a violation of one of the limiting values by the operating system entity.

7. (Previously Presented) A method as recited in claim 1 wherein the operating system entity is one of a process, task, and a project in the operating system.

8. (Previously Presented) A method as recited in claim 1 wherein encountering the newly added software and the associated set of resource controls by an operating system entity in the operating system further includes registering the set of resource controls associated with the newly added software with the operating system.

9. (Original) A method as recited in claim 1 further comprising manually changing the limiting value as desired.

10. (Previously Presented) A system for dynamically checking a set of one or more resource controls associated with resource consumption of newly added software to an operating system, the apparatus comprising:

means for recognizing the newly added software and the associated set of one or more resource controls by an operating system entity in the operating system, wherein each of the set of resource controls identifies one or more resources, each of the set of resource controls having one or more limiting values associated therewith, each of the limiting values having one or more associated actions that are triggered if the limiting value is exceeded;

means for determining whether usage of one of the one or more resources by the operating system entity exceeds a one of the limiting values in the one of the set of resource controls corresponding to the one of the resources;

means for triggering the one or more actions associated with the one of the limiting values when usage of the one of the one or more resources by the operating system entity exceeds the one of the limiting values; and

means for granting the one of the one or more resources to the operating system entity if the limiting value has not been exceeded.

11. (Previously Presented) A computer-readable medium containing programmed instructions arranged to dynamically check a set of one or more resource controls associated with resource consumption of newly added software to an operating system, the computer-readable medium including programmed instructions for:

encountering the newly added software and the associated set of one or more resource controls by an operating system entity in the operating system, wherein each of the set of resource controls identifies one or more resources, each of the set of resource controls having one or more limiting values associated therewith, each of the limiting values having one or more associated actions that are triggered if the limiting value is exceeded;

determining whether usage of one of the one or more resources by the operating system entity exceeds one of the limiting values in the one of the set of resource controls corresponding to the one of the resources;

triggering the one or more actions associated with the one of the limiting values when usage of the one of the one or more resources by the operating system entity exceeds the one of the limiting values; and

granting the one of the one or more resources to the operating system entity if the limiting value has not been exceeded.

12. (Previously Presented) A system for dynamically checking a set of one or more resource controls associated with resource consumption of newly added software to an operating system comprising:

one or more processors; and

a computer readable medium storing a program for execution by the one or more processors comprising:

computer code that recognizes the newly added software and the associated set of one or more resource controls by an operating system entity in the operating system, wherein each of the set of resource controls identifies one or more resources, each of the resource controls having

one or more limiting values associated therewith, each of the limiting values having one or more associated actions that are triggered if the limiting value is exceeded;

computer code that determines whether usage of one of the one or more resources by the operating system entity exceeds one of the limiting values in the one of the set of resource controls corresponding to the one of the resources;

computer code for triggering the one or more actions associated with the one of the limiting values when usage of the one of the one or more resources by the operating system entity exceeds the one of the limiting values; and

computer code that grants the one of the one or more resources to the operating system entity if the limiting value has not been exceeded.

13. (Currently Amended) A method for dynamically adding a resource to an operating system wherein the resource has a variable number of limits comprising:

executing a process request by an operating system entity of the operating system for a resource;

searching in a local set of resources corresponding to the operating system entity for a resource control associated with the resource, the local set of resources having one or more resource controls, each of the resource controls being associated with a resource and including one or more control values and identifying one or more associated actions that are triggered if the corresponding control value is exceeded; and

determining whether a usage value is greater than one of the control values associated with the resource from the local set.

14. (Previously Presented) The method of claim 13 further comprising:

when the usage value is greater than one of the control values associated with the resource from the local set, making a further determination as to whether the resource is contained within a global set; and

when the usage value is less than the one of the control values associated with the resource from the local set, approving the grant of the resource.

15. (Previously Presented) The method of claim 14 further comprising:
denying the resource to the requesting party when the resource control is not contained in the global set.
16. (Previously Presented) The method of claim 13 further comprising loading one or more resource controls associated with the resource from a global set to the local set when the resource is not found in the local set.
17. (Previously Presented) The method of claim 13 further comprising determining, after the resource control is found in the local set or loaded into the local set, whether the resource is still active.
18. (Original) The method of claim 13 further comprising registering the resource when first introducing it to the operating system.
19. (Previously Presented) The method of claim 18 wherein registration comprises:
loading and initializing the software module containing the one or more resource controls; and
adding the one or more resource controls to the local set.

20. (Previously Presented) The method as recited in claim 1, further comprising:
resetting the limiting value of the one of the set of resource controls to another threshold
value.
21. (Previously Presented) The method as recited in claim 1, further comprising:
dynamically adding the set of resource controls to a second set of resource controls.
22. (Previously Presented) The method as recited in claim 1, further comprising:
removing the set of resource controls from a second set of resource controls.
23. (Previously Presented) The method as recited in claim 1, further comprising:
adding the set of resource controls to a global set of resource controls maintained by the
operating system, thereby enabling operating system entities of the operating system to be aware
of additional capabilities of the operating system added by the set of resource controls and the
associated newly added software module.
24. (Previously Presented) The method as recited in claim 23, wherein adding the set of
resource controls to a global set of resource controls maintained by the operating system is
performed when encountering the newly added software is executed for a first time.
25. (Previously Presented) The method as recited in claim 23, wherein adding the set of
resource controls to a global set of resource controls maintained by the operating system is
performed when the newly added software is loaded.

26. (Previously Presented) The method as recited in claim 23, further comprising:
removing the set of resource controls from the global set of resource controls.
27. (Previously Presented) The method as recited in claim 26, wherein removing the set of resource controls from the global set of resource controls is performed when the newly added software is unloaded.
28. (Previously Presented) The method as recited in claim 1, further comprising:
adding the set of resource controls to a local set of resource controls associated with an operating system entity within the operating system.
29. (Previously Presented) The method as recited in claim 13, further comprising:
determining whether a user has a privilege status for the resource.
30. (Previously Presented) The method of claim 14, further comprising:
registering the resource when first introducing it to the operating system.
31. (Previously Presented) The method of claim 30, wherein registration comprises:
loading and initializing the software module containing the one or more resource controls; and
adding the one or more resource controls to the global set.
32. (Previously Presented) The method as recited in claim 1, wherein determining, triggering and granting are performed by the operating system.

33. (Previously Presented) The method as recited in claim 13, wherein determining is performed by the operating system.